AUDIT REPORT

Hostname: BRANCH_Office Config file name: branch_office.txt

Config hash: f4611ccc24036657e22fef3f3a4d98edf0599e1e

Vendor: OS: ios

Facility layer: collapsed_all

L3 protocols: ipv4

Enabled functions: rip,bgp,acl created Date: 18/05/2020_09:49

SUCCESS STATISTICS

Weighted score 94 out of 100 coefficient:

Successful checks: 92.7% Unsuccessful checks: 7.3%

Total number of relevant 164

started checks:

Successful checks: 152 Unsuccessful 'Critical': Unsuccessful 'High': Unsuccessful 'Medium': 3 Unsuccessful 'Low': 1 Unsuccessful 'Notice':

Authentication, Authorization, Accounting

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	AAA new model/ Enabled AAA	High	False	False	Successful 🗸
_	t configuration setting found in: lew-model				
2	AAA server set	High	False	False	Successful 🗸
radiu addre	t configuration setting found in: s server RADIUS_SERVER ess ipv4 192.168.60.11 auth-port 1645 acct-port 10 adKey1	546			
3	AAA server group	High	False	False	Successful 🗸
aaa g	t configuration setting found in: group server radius RADIUS_SERVER or name RADIUS_SERVER				
4	AAA authentication login	High	False	False	Successful 🗸
	t configuration setting found in: uthentication login default group RADIUS_SERVER	local enable			
5	AAA authentication login fallback	High	False	False	Successful 🗸
_	t configuration setting found in: uthentication login default group RADIUS_SERVER	local enable			

6	AAA authentication login only local disabled	High	False	False	Successful 🗸				
7	AAA authentication login none disabled	Critical	False	False	Successful 🗸				
8	AAA authentication "enable"	Medium	False	False	Successful 🗸				
	Right configuration setting found in: aaa authentication enable default group RADIUS_SERVER enable								
9	AAA authentication "enable" fallback	Medium	False	False	Successful 🗸				
	t configuration setting found in: authentication enable default group RADIUS_SERVE	R enable							
10	AAA authentication "enable" only local disabled	Medium	False	False	Successful 🗸				
11	AAA authentication "enable" none disabled	High	False	False	Successful 🗸				
12	AAA authorization "exec"	High	False	False	Successful 🗸				
	t configuration setting found in: authorization exec default group RADIUS_SERVER lo	ocal if-authen	ticated						
13	AAA authorization "exec" fallback	High	False	False	Successful 🗸				
	t configuration setting found in: outhorization exec default group RADIUS_SERVER k	ocal if-authen	ticated						
14	AAA authorization "exec" only local disabled	High	False	False	Successful 🗸				
15	AAA authorization "exec" none disabled	Critical	False	False	Successful 🗸				
16	AAA accounting "connection"	High	False	False	Successful 🗸				
	t configuration setting found in: accounting connection default start-stop group RAD	OIUS_SERVER							
17	AAA auccounting "connection" none disabled	High	False	False	Successful 🗸				
18	AAA accounting "exec"	High	False	False	Successful 🗸				
	t configuration setting found in: accounting exec default start-stop group RADIUS_S	ERVER							
19	AAA accounting "exec" none disabled	High	False	False	Successful 🗸				
20	AAA source interface	Medium	False	False	Successful 🗸				
	t configuration setting found in: dius source-interface Loopback0								
21	AAA authentication max attempts less or equal to 5	High	False	False	Successful 🗸				

Access to device

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Exec timeout <=5 minutes	Medium	False	False	Successful 🗸
line of exectine vectors with the second sec	t configuration setting found in: on 0 timeout 5 0 tty 0 4 timeout 5 0 tty 5 6 ttimeout 5 0				
2	AUX connection input disabled	High	False	False	Successful 🗸
3	AUX no execution set	High	False	False	Successful 🗸
Right configuration setting found in: line aux 0 no exec					
4	Remote output connections disabled	Medium	False	False	Successful 🗸

_	t configuration setting found in:				
	port output none				
	aux 0 sport output none				
	rty 0 4				
	port output none /ty 5 6				
	port output none				
5	Local user database with encrypted password	Critical	False	False	Successful 🗸
	t configuration setting found in:				
	name User secret 5 \$1\$Gash\$8fbPyutm3nNsdVyenr name admin secret 5 \$1\$yF/I\$VpV90aBW82fsd45z6				
6	Local user database with plaintext password disabled	Critical	False	False	Successful 🗸
7	Enable password encrypted	Critical	False	False	Successful 🗸
	t configuration setting found in: le secret 5 \$1\$iEdY\$nL1gMILjU.xmsUL6HN5DM.				
8	Enable password plaintext disabled	Critical	False	False	Successful 🗸
9	Local login to virtual terminal disabled	Critical	False	False	Successful 🗸
10	Restrict login to device - IPv4 ACL	Critical	False	False	Successful 🗸
Diah	t configuration setting found in:				
line v	rty 0 4				
ine v	ss-class VTY_ACC in /ty 5 6 ss-class VTY_ACC in				
11	ACL specified for VTY access is created	Critical	False	False	Successful 🗸
	t configuration setting found in: cess-list standard VTY_ACC				
12	Log login to device on failure	High	False	False	Successful 🗸
	t configuration setting found in: on-failure log				
13	Log login to device on success	Medium	False	False	Successful 🗸
	t configuration setting found in: on-success log				
14	Login quiet mode	Medium	False	False	Successful 🗸
	t configuration setting found in: quiet-mode access-class IPV4_VTY_ACL				
15	ACL exists for specified login quiet mode	Medium	False	False	Error X
	ment:				
Carill	ot be fixed automatically!				
Cann mana ip ac rema	notice: <pre>not be fixed automatically! If search is not successfunction aging devices with these commands: cess-list standard <acl name=""> <pre>urk Permiting managemnt device</pre></acl></pre>	ıl create ACL,	which permits	only needed e	nd stations for
perm 16	oit <ip address=""> <wildcard mask=""> One user change config at time</wildcard></ip>	High	False	False	Successful 🗸
	t configuration setting found in:		. 4.50		Juccessiai •
	anno a tito a cara a da cancalinativa				
confi	guration mode exclusive	Low	Ealaa	Falsa	C
confi 17	Legal banner MOTD	Low	False	False	Successful 🗸
confi 17 Righ	•		False	False	Successful 🗸

Right configuration setting found in: banner exec ^C * IOSv is strictly limited to use for evaluation, demonstration and IOS * * education. IOSv is provided as-is and is not supported by Cisco's * * Technical Advisory Center. Any use or disclosure, in whole or in part, * * of the IOSv Software or Documentation to any third party for any * * purposes is expressly prohibited except as otherwise authorized by * * Cisco in writing. * Legal banner login **False False** Successful < Low Right configuration setting found in: banner login ^C * IOSv is strictly limited to use for evaluation, demonstration and IOS * * education. IOSv is provided as-is and is not supported by Cisco's * * Technical Advisory Center. Any use or disclosure, in whole or in part, * * of the IOSv Software or Documentation to any third party for any * purposes is expressly prohibited except as otherwise authorized by * * Cisco in writing. * 20 Session timeout Medium False False Successful 🗸 Right configuration setting found in: line con 0 session-timeout 30 line aux 0 session-timeout 30 line vty 0 4 session-timeout 30 line vty 5 6 session-timeout 30 21 AUX exec timeout one second High **False False** Successful < Right configuration setting found in: line aux 0 exec-timeout 0 1 Not relevant Restrict login to device - IPv6 ACL Critical **False** True Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant ACL IPv6 specified for VTY access is 23 Critical **False** True created Comment: Skipped, required function ipv6 not configured on device. Everything is OK. 24 Login DOS block for High **False** Successful < Right configuration setting found in: login block-for 120 attempts 3 within 30 SSH

No.	Name	Severity	Skipped	Cannot determine search/fix	Status
1	SSH enable on management connection	Critical	False	False	Successful 🗸
line v transp line v	port input ssh				
2	SSH version 2	Critical	False	False	Successful 🗸
	t configuration setting found in:				
3	SSH timeout	Medium	False	False	Successful 🗸

_	t configuration setting found in: h time-out 30						
4	SSH max 3 retries	Medium	False	False	Successful 🗸		
5	SSH source interface	High	False	False	Successful 🗸		
_	Right configuration setting found in: ip ssh source-interface Loopback0						
6	SSH not default port	High	False	False	Successful 🗸		
_	t configuration setting found in: h port 2223 rotary 1						
7	SSH not default port applied	High	False	False	Successful 🗸		
line v	yty 5 6						

Device identification

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	Hostname set	Low	False	False	Successful 🗸
Cann	ment: ot be fixed automatically! t configuration setting found in: name BRANCH_Office				
2	Domain name set	Low	False	False	Successful 🗸
_	t configuration setting found in: main-name thesis-test.cz				
3	All interfaces have description	Low	False	False	Error 🗶

Comment:

Cannot be fixed automatically!

Right configuration setting found in:

interface GigabitEthernet0/0 description WAN_PORT

Found port(s) with error:

Loopback0

Tunnel0

GigabitEthernet0/1

GigabitEthernet0/2

GigabitEthernet0/3

GigabitEthernet1/0 GigabitEthernet1/1

GigabitEthernet1/2

GigabitEthernet1/3

GigabitEthernet2/0

GigabitEthernet2/1 GigabitEthernet2/2

GigabitEthernet2/3

GigabitEthernet3/0

GigabitEthernet3/1

GigabitEthernet3/2

GigabitEthernet3/3

Vlan10

Fix notice:

Set interface descrtiption with command: interface <interface name> description <description of interface>

Fix ignore comment:

Fixing commands suppressed due to manual need of manual chenage and name determination.

No.	Name	Severity	Skipped	Cannot determine search/fix	Status
1	SNMP v2 write disabled	Critical	False	False	Successful 🗸
2	SNMP v2 read without ACL disabled	Critical	False	False	Successful 🗸
3	SNMP v2 read with ACL disabled	Critical	False	False	Successful 🗸
4	SNMP v1 trap host disabled	Critical	False	False	Successful 🗸
5	SNMP v2 trap host disabled	Critical	False	False	Successful 🗸
6	SNMP v3 read [authnopriv noauth authpriv without ACL] or write disabled	Critical	False	False	Successful 🗸
7	SNMP v3 read authpriv with ACL enabled	d Critical	False	False	Successful 🗸
	t configuration setting found in: -server group SNMP_V3_GRP v3 priv read READVIE	:Wv3 access !	SNMP_V3		
8	SNMP v3 read authpriv with IPv6 ACL enabled	Critical	True	False	Not relevant ✓
	ment: ed, required function ipv6 not configured on device	e Everything	is OK		
Skipp	SNMP user v1 v2c or v3	c. Everyaning	.5 010		
9	[noauth authnopriv no sha no aes without ACL] disabled	Critical	False	False	Successful 🗸
10	SNMP trap source interface	High	False	False	Successful 🗸
_	t configuration setting found in: -server trap-source Loopback0				
11	SNMP server location	High	False	False	Successful 🗸
_	t configuration setting found in: -server location GNS3LAB				
12	SNMP v3 traps priv	Medium	False	False	Successful 🗸
_	t configuration setting found in: -server host 192.168.60.11 version 3 priv SNMPv3				
13	SNMP traps v3 read [authnopriv noauth] or v1 v2 disabled	Critical	False	False	Successful 🗸
14	SNMP traps enabled	Medium	False	False	Successful 🗸
	t configuration setting found in: -server enable traps snmp authentication linkdowr	n linkup colds	tart warmstart		
15	ACL is created for SNMPv3	Critical	False	False	Error 🗶
	ment: ot be fixed automatically!				
Cann receivip according according to the contract of the contr	otice: ot be fixed automatically! If search is not successfu ving SNMP with these commands: cess-list standard <acl name=""> rk Permiting SNMP it <ip address=""> <wildcard mask=""></wildcard></ip></acl>	ul create ACL,	, which permits	only needed e	nd stations for
16	ACL IPv6 is created for SNMPv3	Critical	True	False	Not relevant ✓
	ment: led, required function ipv6 not configured on device	e. Everything	is OK.		
17	SNMP interface index persist enabled globally	High	False	False	Successful 🗸
	t configuration setting found in: ifmib ifindex persist				
18	SNMP interface index persist enabled per interface	High	False	False	Matched by equivalent ✓

Comment:Module was marked as matched by equivalent by module 05_20_snmp_ifindex_persist_globally.yaml

Syslog

No.	Name	Severity	Skipped	Cannot determine search/fix				
1	Syslog server enabled	High	False	False	Successful 🗸			
	t configuration setting found in: ng host 192.168.60.11							
2	Syslog server IPv6 enabled	High	True	False	Not relevant ✓			
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
3	Syslog source interface	Medium	False	False	Successful 🗸			
	t configuration setting found in: ng source-interface Loopback0							
4	Syslog format	Medium	False	False	Successful 🗸			
	t configuration setting found in: te timestamps log datetime msec							
5	Syslog critical alerts to console	Medium	False	False	Successful 🗸			
	t configuration setting found in: ng console critical							
6	Syslog send informational traps	High	False	False	Successful 🗸			
7	Syslog buffer set with severity	High	False	False	Successful 🗸			
	t configuration setting found in: ng buffered 40960 informational							
8	Syslog local backup	High	False	False	Successful 🗸			
	t configuration setting found in: ng persistent url flash:/							
9	Syslog sequence numbers added	Medium	False	False	Successful 🗸			
	t configuration setting found in: te sequence-numbers							

NTP

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	NTP server set	High	False	False	Successful 🗸
_	t configuration setting found in: erver 192.168.60.11				
2	NTP source interface	Medium	False	False	Successful 🗸
_	t configuration setting found in: purce Loopback0				
3	NTP authentication key	High	False	False	Successful 🗸
_	t configuration setting found in: uthentication-key 1 md5 11070D152713181F132E	7A767B 7			
4	NTP trusted key	High	False	False	Successful 🗸
_	t configuration setting found in: usted-key 1				
5	NTP authenticate	High	False	False	Successful 🗸

High load

No.	Name	Severity	Skipped	Cannot determine search/fix	
1	SNMP traps for CPU load	Medium	False	False	Error 🗶
	erated fix: server enable traps cpu threshold				
2	Threshold for CPU load	Medium	False	False	Successful 🗸
_	t configuration setting found in: ess cpu threshold type total rising 70 interval 5				
3	Statistics entry for CPU load	Low	False	False	Successful 🗸
_	t configuration setting found in: ess cpu statistics limit entry-percentage 70				
4	Reserve memory for critical notification	Medium	False	False	Successful 🗸
_	t configuration setting found in: ory reserve critical 1000				
5	Minimum CPU memory notification	Medium	False	False	Successful 🗸
_	t configuration setting found in: ory free low-watermark processor 2000				
6	Minimum IO memory notification	Medium	False	False	Successful 🗸
_	t configuration setting found in: ory free low-watermark IO 2000				

Spanning tree

No.	Name	Severity	Skipped	Cannot determine search/fix	Status		
1	Portfast globally enabled	High	False	False	Successful 🗸		
_	t configuration setting found in: ning-tree portfast edge default						
2	Portfast enabled on access interface	High	False	False	Matched by equivalent ✓		
Comment: Module was marked as matched by equivalent by module 09 01 stp portfast default.yaml							
3	BPDU Guard globally enabled	Critical	False	False	Successful 🗸		
_	t configuration setting found in: ning-tree portfast edge bpduguard default						
4	BPDU Guard enabled on access interface	High	False	False	Matched by equivalent ✓		
	ment: lle was marked as matched by equivalent by modu	le 09_03_stp_	_bpdu_guard.ya	aml			
5	BPDU Filter globally disabled	Critical	False	False	Successful 🗸		
5	BPDU Filter disabled on access interface	High	False	False	Not relevant ✓		
Modu	ment: lle 09_06_stp_bpdu_filter_interface.yaml configured module has not run yet with specified cmd_match_s						
Li iu c i		Critical	False	False			

Right configuration setting found in:

spanning-tree loopguard default

8 Loop Guard enabled on access interface High False False Matched by equivalent ✓

Comment:

Module was marked as matched by equivalent by module 09_07_stp_loop_guard.yaml

VLAN

r	No.	Name	Severity	Skipped	Cannot determine search/fix	
1	L	Default Vlan not used	Critical	False	False	Error 🗶

Comment:

Cannot be fixed automatically! Cannot automatically determine VLAN assignment to port.

Right configuration setting found in:

interface GigabitEthernet0/1 switchport access vlan 10 interface GigabitEthernet0/2 switchport access vlan 10 interface GigabitEthernet0/3 switchport access vlan 10

Found port(s) with error:

GigabitEthernet1/0

GigabitEthernet1/1

GigabitEthernet1/2

GigabitEthernet1/3

GigabitEthernet2/0

GigabitEthernet2/1

GigabitEthernet2/2

GigabitEthernet2/3 GigabitEthernet3/0

GigabitEthernet3/1

GigabitEthernet3/2

GigabitEthernet3/3

Fix notice:

Eliminate ports with default Vlan by command with Vlan ID different than 1 interface <interface name> switchport mode access

switchport access vlan <vlan id>

2 Management VLAN + SVI set and different than 1 Medium False False Successful ✓

Comment:

Cannot be fixed automatically! Cannot automatically set diffrenet IP among SVI(s) a lot of prerequirements must be met as existing VLAN and port assigned to VLAN.

Right configuration setting found in:

interface Vlan10 ip address 192.168.10.1 255.255.255.0 no ip redirects no ip unreachables no ip proxy-arp snmp ifindex persist

3 Management VLAN gateway Medium False False Error

★

Comment:

Cannot be fixed automatically! Cannot automatically set default gateway among different switches.

Fix notice:

Default gateway can be set with command:

ip default-gateway <ip address>

4 Native vlan different than 1 Critical False True Error X

Cannot determine search/fix comment:

There is no applicable interface type on this device to scan and apply fix to. Cannot meet requirements in 'applicable_to_interface_type'['trunk'] and 'non_applicable_to_interface_type' []

5 Specified allowed VLAN on trunk Critical False True Error 🗶

Cannot determine search/fix comment: There is no applicable interface type on this device to scan and apply fix to. Cannot meet requirements in 'applicable_to_interface_type'['trunk'] and 'non_applicable_to_interface_type' [] Switchport mode dynamic disabled Critical **False** Successful < 7 Switchport implicit dynamic disabled Critical False False Successful < Right configuration setting found in: interface GigabitEthernet0/1 switchport mode access interface GigabitEthernet0/2 switchport mode access interface GigabitEthernet0/3 switchport mode access interface GigabitEthernet1/0 switchport mode access interface GigabitEthernet1/1 switchport mode access interface GigabitEthernet1/2 switchport mode access interface GigabitEthernet1/3 switchport mode access interface GigabitEthernet2/0 switchport mode access interface GigabitEthernet2/1 switchport mode access interface GigabitEthernet2/2 switchport mode access interface GigabitEthernet2/3 switchport mode access interface GigabitEthernet3/0 switchport mode access interface GigabitEthernet3/1 switchport mode access interface GigabitEthernet3/2 switchport mode access interface GigabitEthernet3/3 switchport mode access 8 DTP disabled Critical **False False** Successful < Right configuration setting found in: interface GigabitEthernet0/1 switchport nonegotiate interface GigabitEthernet0/2 switchport nonegotiate interface GigabitEthernet0/3 switchport nonegotiate interface GigabitEthernet1/0 switchport nonegotiate interface GigabitEthernet1/1 switchport nonegotiate interface GigabitEthernet1/2 switchport nonegotiate interface GigabitEthernet1/3 switchport nonegotiate interface GigabitEthernet2/0 switchport nonegotiate interface GigabitEthernet2/1 switchport nonegotiate interface GigabitEthernet2/2 switchport nonegotiate interface GigabitEthernet2/3 switchport nonegotiate interface GigabitEthernet3/0 switchport nonegotiate interface GigabitEthernet3/1 switchport nonegotiate interface GigabitEthernet3/2 switchport nonegotiate interface GigabitEthernet3/3 switchport nonegotiate VTP disabled Critical **False** False Successful <

Network Mapping

No. Name	Severity Skipped	Cannot determine Status search/fix

1	CDP globally disabled	Critical	False	False	Successful 🗸					
	t configuration setting found in: lp run									
2	CDP disabled on interface(s)	Critical	False	False	Matched by					
					equivalent 🗸					
Comment: Module was marked as matched by equivalent by module 11 01 cdp run disabled.yaml										
3	LLDP globally disabled	Critical	False	False	Successful 🗸					
4	LLDP receive disabled on interface(s)	Critical	False	False	Not relevant					
7	LEDI Teceive disabled on interface(s)	Critical	i dise	i dise	✓					
Modu	ment: ıle 11_04_lldp_receive.yaml configured to run after not run yet with specified cmd_match_status, 11_04				error but that module					
5	LLDP transmit disabled on interface(s)	Critical	False	False	Not relevant ✓					
Modu	ment: lle 11_05_lldp_transmit.yaml configured to run afte ule has not run yet with specified cmd_match_statu				s error but that					
6	Proxy ARP disabled on interface(s)	Critical	False	False	Successful 🗸					
inter no ip inter	t configuration setting found in: face GigabitEthernet0/0 proxy-arp face Vlan10 proxy-arp									
7	ICMP Unreachable disabled on interface(s)	High	False	False	Successful 🗸					
inter no ip inter	t configuration setting found in: face GigabitEthernet0/0 unreachables face Vlan10 unreachables									
8	ICMPv6 Unreachable disabled on interface(s)	High	True	False	Not relevant ✓					
Com	ment:									
	ped, required function ipv6 not configured on devic	e. Everything	is OK.							
9	ICMP Mask Reply disabled on interface(s)	High	False	False	Successful 🗸					
10	Directed broadcast disabled on interface(s)	Critical	False	False	Successful 🗸					
11	ICMP Redirects disabled on interface(s)	High	False	False	Successful ✓					
inter no ip inter	t configuration setting found in: face GigabitEthernet0/0 redirects face Vlan10 redirects	,								
12	ICMP 224.0.0.1 ping disabled in ACL	Medium	False	False	Successful 🗸					
ip ac rema deny rema deny	t configuration setting found in: cess-list extended DENY_NETWORK_MAP rk deny ping all nodes icmp any host 224.0.0.1 echo log-input rk deny host query igmp any any 1 log-input it ip any any									
13	IGMP Host Query disabled in ACL	Medium	False	False	Successful 🗸					

ip ac rema deny rema deny	cess-list extended DENY_NETWORK_MAP with deny ping all nodes icmp any host 224.0.0.1 echo log-input with deny host query igmp any any 1 log-input with it ip any any				
14	ICMPv6 ff02::1 ping disabled in ACL	Medium	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on device	ce. Everything	g is OK.		
15	MLD Host Query disabled in ACL	Medium	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on device	ce. Everything	g is OK.		
16	ACL against IPv4 network monitoring applied on interface(s)	Medium	False	False	Successful 🗸
inter ip ac inter	te configuration setting found in: face GigabitEthernet0/1 cess-group DENY_NETWORK_MAP in face GigabitEthernet0/2 cess-group DENY_NETWORK_MAP in face GigabitEthernet0/3 cess-group DENY_NETWORK_MAP in face GigabitEthernet1/0 cess-group DENY_NETWORK_MAP in face GigabitEthernet1/1 cess-group DENY_NETWORK_MAP in face GigabitEthernet1/2 cess-group DENY_NETWORK_MAP in face GigabitEthernet1/3 cess-group DENY_NETWORK_MAP in face GigabitEthernet2/0 cess-group DENY_NETWORK_MAP in face GigabitEthernet2/1 cess-group DENY_NETWORK_MAP in face GigabitEthernet2/2 cess-group DENY_NETWORK_MAP in face GigabitEthernet2/3 cess-group DENY_NETWORK_MAP in face GigabitEthernet2/3 cess-group DENY_NETWORK_MAP in face GigabitEthernet3/0 cess-group DENY_NETWORK_MAP in face GigabitEthernet3/1 cess-group DENY_NETWORK_MAP in face GigabitEthernet3/2 cess-group DENY_NETWORK_MAP in face GigabitEthernet3/3	Medium	True	False	Not relevant ✓
	ment:				•
Skipp	oed, required function ipv6 not configured on device	ce. Everything	g is OK.		

Routing

No.	Name	Severity	Skipped	Cannot determine search/fix			
1	OSPF IPv4 Router ID	Medium	True	False	Not relevant ✓		
Comment: Skipped, required function ospf ipv4 not configured on device. Everything is OK.							
2	OSPF IPv6 Router ID	Medium	True	False	Not relevant ✓		
Comment: Skipped, required function ospf ipv6 not configured on device. Everything is OK.							

3	OSPFv3 Address Family General Router ID	Medium	True	False	Not relevant ✓				
	ment: bed, required function ospfv3 not configured on de	vice. Everythi	ina is OK.						
4	OSPFv3 Address Family IPv4 Router ID		True	False	Not relevant ✓				
	Comment: Skipped, required function ospfv3 not configured on device. Everything is OK.								
			3		Not relevant				
5	OSPFv3 Address Family IPv6 Router ID	Medium	True	False	✓				
	ment: ped, required function ipv6 not configured on device	e. Everything	j is OK.						
6	EIGRP IPv4 Router ID	Medium	True	False	Not relevant ✓				
	ment: ned, required function eigrp ipv4 not configured on	device. Ever	ything is OK.						
7	EIGRP IPv6 Router ID	Medium	True	False	Not relevant ✓				
	ment: ped, required function eigrp ipv6 not configured on	device. Ever	ything is OK.						
8	EIGRP Named IPv4 Router ID	Medium	True	False	Not relevant ✓				
	ment: ped, required function eigrp named not configured	on device. Ev	verything is OK						
9	EIGRP Named IPv6 Router ID	Medium	True	False	Not relevant ✓				
	ment: bed, required function ipv6 not configured on devic	e. Everything	ı is OK.						
10	BGP Router ID	Medium	False	False	Successful 🗸				
route	t configuration setting found in: or bgp 1212 couter-id 3.3.3.3								
11	OSPF IPv4 Log adjacency changes	Medium	True	False	Not relevant ✓				
	ment: med, required function ospf ipv4 not configured on a	device. Every	thing is OK.						
12	OSPF IPv6 Log adjacency changes	Medium	True	False	Not relevant				
Com	ment:				•				
Skipp	ped, required function ospf ipv6 not configured on	device. Every	thing is OK.		Not vole : :- +				
13	OSPFv3 Address Family IPv6 Log adjacency changes	Medium	True	False	Not relevant ✓				
	ment: ned, required function ipv6 not configured on devic	e. Everything	g is OK.						
14	OSPFv3 Address Family IPv4 Log adjacency changes	Medium	True	False	Not relevant ✓				
	ment: ned, required function ospfv3 not configured on de	vice. Everyth	ing is OK.						
15	OSPFv3 Address Family IPv6 Log adjacency changes	Medium	True	False	Not relevant ✓				
	ment: ned, required function ipv6 not configured on devic	e. Everything	j is OK.						
16	EIGRP IPv4 Log neighbor changes	Medium	True	False	Not relevant ✓				

Com	ment:				
Skipp	ped, required function eigrp ipv4 not configured on	device. Ever	ything is OK.		Not relevant
17	EIGRP IPv6 Log neighbor changes	Medium	True	False	✓
	ment: ped, required function eigrp ipv6 not configured on	ı device. Ever	ything is OK.		
18	EIGRP Named IPv4 Log neighbor changes	Medium	True	False	Not relevant ✓
	ment: ped, required function eigrp named not configured	on device. Ev	verything is OK		
19	EIGRP Named IPv6 Log neighbor changes	Medium	True	False	Not relevant ✓
	ment: Ded, required function ipv6 not configured on devic	ce. Everything	g is OK.		
20	BGP Log neighbor changes	Medium	False	False	Successful 🗸
route	t configuration setting found in: er bgp 1212 og-neighbor-changes				
21	RIP auto summary disabled	High	False	False	Successful 🗸
route	t configuration setting found in: er rip uto-summary				
22	EIGRP IPv4 Auto summary disabled	High	True	False	Not relevant ✓
	ment: ped, required function eigrp ipv4 not configured on	ı device. Ever	ything is OK.		
23	EIGRP IPv6 Auto summary disabled	High	True	False	Not relevant ✓
	ment: me	ı device. Ever	ything is OK.		
24	EIGRP Named IPv4 Auto summary disabled	High	True	False	Not relevant ✓
	ment: ped, required function eigrp named not configured	on device. Ev	verything is OK		
25	EIGRP Named IPv6 Auto summary disabled	High	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on devic	ce. Everything	g is OK.		
26	BGP Auto summary disabled	High	False	False	Successful 🗸
27	BGP Multihop disabled or TTL security used	High	False	False	Successful 🗸
21	useu				

Filtering

	Name	Severity	Skipped	Cannot determine search/fix	
1	ACL filter specified for IPv4 addresses on WAN	Critical	False	False	Successful 🗸

ip acc rema deny deny deny deny deny deny deny deny	t configuration setting found in: cess-list extended IPV4_WAN_FILTER rk DENY RFC6890 and RFC8190 ip 0.0.0.0 0.255.255.255 any log-input ip 10.0.0.0 0.255.255.255 any log-input ip 100.64.0.0 0.63.255.255 any log-input ip 127.0.0.0 0.255.255.255 any log-input ip 169.254.0.0 0.0.255.255 any log-input ip 192.0.0.0 0.0.0.7 any log-input ip 192.0.2.0 0.0.0.255 any log-input ip 192.18.0.0 0.1.255.255 any log-input ip 192.18.0.0 0.0.255 any log-input ip 192.18.0.0 0.0.255 any log-input ip 192.168.0.0 0.0.255.255 any log-input ip 203.0.113.0 0.0.0.255 any log-input ip 240.0.0 15.255.255.255 any log-input ip 240.0.0 15.255.255.255 any log-input ip 240.0.0 15.255.255.255 any log-input it ip any any				
2	ACL filter IPv4 applied on WAN interface	Critical	False	False	Successful 🗸
interf	t configuration setting found in: Face GigabitEthernet0/0 Cess-group IPV4_WAN_FILTER in				
3	ACL filter specified for IPv5 addresses or WAN	¹ Critical	True	False	Not relevant ✓
	ment: ned, required function ipv6 not configured on devic	e. Everything	ı is OK.		
4	ACL filter IPv6 applied on WAN interface	Critical	True	False	Not relevant ✓
	ment: bed, required function ipv6 not configured on devic	e. Everything	ı is OK.		
5	IP Options disabled	Critical	False	False	Successful 🗸
	t configuration setting found in: tions drop				
6	ACL filter IPv6 unknown extended header	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on devic	e. Everything	ı is OK.		
7	ACL filter IPv6 unknown extended header applied on WAN interface	Critical	True	False	Not relevant ✓
	ment: ped, required function ipv6 not configured on devic	e. Everything	ı is OK.		
8	ACL filter IPv6 unknown extended	,			Not relevant

First Hop Security

Skipped, required function ipv6 not configured on device. Everything is OK.

Comment:

No.	Name	Severity	Skipped	Cannot determi search/f	ne Status īix
1	Port security enabled	Critical	False	False	Successful 🗸

Right configuration setting found in: interface GigabitEthernet0/1 switchport port-security interface GigabitEthernet0/2 switchport port-security interface GigabitEthernet0/3 switchport port-security interface GigabitEthernet1/0 switchport port-security interface GigabitEthernet1/1 switchport port-security interface GigabitEthernet1/2 switchport port-security interface GigabitEthernet1/3 switchport port-security interface GigabitEthernet2/0 switchport port-security interface GigabitEthernet2/1 switchport port-security interface GigabitEthernet2/2 switchport port-security interface GigabitEthernet2/3 switchport port-security interface GigabitEthernet3/0 switchport port-security interface GigabitEthernet3/1 switchport port-security interface GigabitEthernet3/2 switchport port-security interface GigabitEthernet3/3 switchport port-security Port security maximum 1 allowed MAC 2 Critical **False False** Successful < on port 3 Port security violation shutdown Critical False False Successful < 802.1x globally enabled High False False Successful < Right configuration setting found in: dot1x system-auth-control High AAA authentication 802.1x **False** False Successful < Right configuration setting found in: aaa authentication dot1x default group RADIUS SERVER 802.1x enabled on interfaces High False False Successful < Right configuration setting found in: interface GigabitEthernet0/1 access-session port-control auto interface GigabitEthernet0/2 access-session port-control auto interface GigabitEthernet0/3 access-session port-control auto interface GigabitEthernet1/0 access-session port-control auto interface GigabitEthernet1/1 access-session port-control auto interface GigabitEthernet1/2 access-session port-control auto interface GigabitEthernet1/3 access-session port-control auto interface GigabitEthernet2/0 access-session port-control auto interface GigabitEthernet2/1 access-session port-control auto interface GigabitEthernet2/2 access-session port-control auto interface GigabitEthernet2/3 access-session port-control auto interface GigabitEthernet3/0 access-session port-control auto interface GigabitEthernet3/1 access-session port-control auto interface GigabitEthernet3/2 access-session port-control auto interface GigabitEthernet3/3 access-session port-control auto 802.1x enabled on interfaces False False High Successful < 8 802.1x port set authenticator High **False False** Successful <

Right configuration setting found in:

interface GigabitEthernet0/1 dot1x pae authenticator interface GigabitEthernet0/2 dot1x pae authenticator interface GigabitEthernet0/3 dot1x pae authenticator interface GigabitEthernet1/0 dot1x pae authenticator interface GigabitEthernet1/1 dot1x pae authenticator interface GigabitEthernet1/2 dot1x pae authenticator interface GigabitEthernet1/3 dot1x pae authenticator interface GigabitEthernet2/0 dot1x pae authenticator interface GigabitEthernet2/1 dot1x pae authenticator interface GigabitEthernet2/2 dot1x pae authenticator interface GigabitEthernet2/3 dot1x pae authenticator interface GigabitEthernet3/0 dot1x pae authenticator interface GigabitEthernet3/1 dot1x pae authenticator interface GigabitEthernet3/2 dot1x pae authenticator interface GigabitEthernet3/3 dot1x pae authenticator

9	DHCP Snooping globally enabled	Critical	False	False	Successful 🗸					
	Right configuration setting found in: ip dhcp snooping									
10	DHCP Snooping enabled for VLAN(s)	Critical	False	False	Successful 🗸					
	nt configuration setting found in: ncp snooping vlan 10,20,30,40,50,60									
11	DHCP Snooping trust interface(s) set	Critical	False	True	Error 🗶					

Cannot determine search/fix comment:

There is no applicable interface type on this device to scan and apply fix to. Cannot meet requirements in 'applicable_to_interface_type'['trusted-uplink', 'trunk'] and 'non_applicable_to_interface_type' []

12	DHCP Snooping rate limit fo ACCESS interface(s) set	High	False	False	Successful 🗸
----	---	------	-------	-------	--------------

interface GigabitEthernet0/1 ip dhcp snooping limit rate 100 interface GigabitEthernet0/2 ip dhcp snooping limit rate 100 interface GigabitEthernet0/3 ip dhcp snooping limit rate 100 interface GigabitEthernet1/0 ip dhcp snooping limit rate 100 interface GigabitEthernet1/1 ip dhcp snooping limit rate 100 interface GigabitEthernet1/2 ip dhcp snooping limit rate 100 interface GigabitEthernet1/3 ip dhcp snooping limit rate 100 interface GigabitEthernet2/0 ip dhcp snooping limit rate 100 interface GigabitEthernet2/1 ip dhcp snooping limit rate 100 interface GigabitEthernet2/2 ip dhcp snooping limit rate 100 interface GigabitEthernet2/3 ip dhcp snooping limit rate 100 interface GigabitEthernet3/0 ip dhcp snooping limit rate 100 interface GigabitEthernet3/1 ip dhcp snooping limit rate 100 interface GigabitEthernet3/2 ip dhcp snooping limit rate 100 interface GigabitEthernet3/3 ip dhcp snooping limit rate 100 Not relevant Critical **False** IPv6 Unicast Routing enabled True Comment: Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant 14 IPv6 RA Guard host policy defined Critical True **False** Comment: Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant IPv6 RA Guard on ACCESS interface(s) Critical True False Comment: Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant **DHCPv6** Server policy Critical **False** Comment: Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant False **DHCPv6** Client policy Critical True 17 Comment: Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant 18 DHCPv6 Guard server interface(s) set Critical True False Skipped, required function ipv6 not configured on device. Everything is OK. Not relevant 19 DHCPv6 Guard client interface(s) set False Critical True Skipped, required function ipv6 not configured on device. Everything is OK. Dynamic ARP Inspection enabled for Critical **False False** Successful < VLAN(s) Right configuration setting found in: ip arp inspection vlan 10,20,30,40,50,60

Right configuration setting found in:

21	Dynamic ARP Inspection validate by SRC,DST MAC and IP	Critical	False	False	Successful 🗸			
Right configuration setting found in: ip arp inspection validate src-mac dst-mac ip								
22	Dynamic ARP trusted interface(s) set	Critical	False	True	Error 🗶			
Cannot determine search/fix comment: There is no applicable interface type on this device to scan and apply fix to. Cannot meet requirements in 'applicable_to_interface_type'['trusted-uplink', 'trunk'] and 'non_applicable_to_interface_type' []								
23	IPv6 ND inspection policy	Critical	True	False	Not relevant ✓			
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.								
24	IPv6 ND inspection on interface(s) set	Critical	True	False	Not relevant ✓			
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.								
25	IPv6 Snooping policy	Critical	True	False	Not relevant ✓			
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.								
26	IPv6 Snooping on interface(s) set	Critical	True	False	Not relevant ✓			
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.								
27	IP Source Guard on interface(s) set	Critical	False	False	Successful 🗸			
Right configuration setting found in: interface GigabitEthernet0/1 ip verify source port-security interface GigabitEthernet0/2 ip verify source port-security interface GigabitEthernet0/3 ip verify source port-security interface GigabitEthernet1/0 ip verify source port-security								

ip verify source port-security interface GigabitEthernet1/1 ip verify source port-security interface GigabitEthernet1/2 ip verify source port-security interface GigabitEthernet1/3 ip verify source port-security interface GigabitEthernet2/0 ip verify source port-security interface GigabitEthernet2/1 ip verify source port-security interface GigabitEthernet2/2 ip verify source port-security interface GigabitEthernet2/3 ip verify source port-security interface GigabitEthernet3/0 ip verify source port-security interface GigabitEthernet3/1 ip verify source port-security interface GigabitEthernet3/2 ip verify source port-security interface GigabitEthernet3/3 ip verify source port-security

28	IPv6 Source Guard policy	Critical	True	False	Not relevant ✓		
	Comment: Skipped, required function ipv6 not configured on device. Everything is OK.						
29	IPv6 Source Guard on interface(s) set	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
30	IPv6 Destination Guard policy	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							
31	IPv6 Destination Guard on interface(s) set	Critical	True	False	Not relevant ✓		
Comment: Skipped, required function ipv6 not configured on device. Everything is OK.							

Other

				_			
No.	Name	Severity	Skipped	Cannot determine Status search/fix			
1	Servis PAD disabled (Packet assembler disassembler)	High	False	False	Successful 🗸		
Right configuration setting found in: no service pad							
2	BOOTP server disabled	High	False	False	Successful 🗸		
Right configuration setting found in: no ip bootp server							
3	Finger protocol disabled	High	False	False	Successful 🗸		
4	HTTP server disabled	High	False	False	Error 🗶		
Error configuration setting found in: ip http server							
5	HTTPS server disabled	High	False	False	Successful 🗸		
6	TCP small server disabled	High	False	False	Successful 🗸		
7	UDP small server disabled	High	False	False	Successful 🗸		
8	IP domain lookup disabled	High	False	False	Successful 🗸		
Right configuration setting found in: no ip domain-lookup							
9	Gratuitous ARPs generation disabled	High	False	False	Successful 🗸		
Right configuration setting found in: no ip gratuitous-arps							
10	Gratuitous ARPs reject enabled	High	False	False	Successful 🗸		
Right configuration setting found in: ip arp gratuitous none							
11	Netflow is disabled	Notice	False	False	Successful 🗸		
Fix ignore comment: By default fix is ignored due to disablement of traffic monitoring. Consider whether port mirroring is neccesary for monitoring							
12	Netflow version 9 used	Medium	False	False	Not relevant ✓		
Comment: Module 15 14 netflow version 9.yaml configured to run after 15 13 netflow.yaml with status error but that module							

Module 15_14_netflow_version_9.yaml configured to run after 15_13_netflow.yaml with status error but that module has not run yet with specified cmd_match_status, 15_14_netflow_version_9.yaml will not run

13	Netflow traffic analyze disabled on interface(s)	Notice	False	False	Not relevant ✓			
Comment: Module 15_15_netflow_interface.yaml configured to run after 15_13_netflow.yaml with status error but that module has not run yet with specified cmd_match_status, 15_15_netflow_interface.yaml will not run								
Fix ignore comment: By default fix is ignored due to disablement of traffic monitoring. Consider whether port mirroring is neccesary for								
moni	toring Port mirroring disabled on interface(s)	Notice	False	False	Successful 🗸			
				. 4.30	Succession			
Fix ignore comment: By default fix is ignored due to disablement of traffic monitoring. Consider whether port mirroring is neccessary for monitoring								
15	Set always "UP" Loopback interface with IP address	¹ Medium	False	False	Successful 🗸			
Right configuration setting found in: interface Loopback0 ip address 1.1.1.1 255.255.255.0 no ip redirects no ip unreachables no ip proxy-arp no ipv6 unreachables snmp ifindex persist								
16	Notification on memory IO leak/overflow	Medium	False	False	Successful 🗸			
Right configuration setting found in: exception memory ignore overflow io								
17	Notification on memory CPU leak/overflow	Medium	False	False	Successful 🗸			
_	t configuration setting found in: otion memory ignore overflow processor							
18	Network boot disabled	Medium	False	False	Successful 🗸			
19	Network config load disabled	Medium	False	False	Successful 🗸			
20	SCP server enabled	Medium	False	False	Successful 🗸			
Right configuration setting found in: ip scp server enable								
21	SCP alias copy instead of TFTP	High	False	False	Successful 🗸			
22	Protection of configuration deletion	High	False	False	Error 🗶			
Generated fix: secure boot config secure boot-config Fix notice:								
	one of fixing command is applicable to device. The							
Archive and log config changes Medium False False Successful ✓ Right configuration setting found in: archive log config logging enable notify syslog contenttype plaintext hidekeys path flash: maximum 5 time-period 60 memory reserve critical 1000 memory free low-watermark processor 2000 memory free low-watermark IO 2000								
24 Biab	Terminate hanged inbound TCP connection to device	Medium	False	False	Successful 🗸			
	t configuration setting found in: ce tcp-keepalives-in							

25	Terminate hanged outbound TCP connection to device	Medium	False	False	Successful 🗸
_	t configuration setting found in: ce tcp-keepalives-out				
26	Encrypt all saved passwords in configuration	Critical	False	False	Successful 🗸
_	t configuration setting found in: ervice password-encryption				